STN:Search History Report

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(FILE 'HOME' ENTERED AT 12:07:27 ON 25 NOV 2009)

FILE 'MEDLINE, SCISEARCH, CAPLUS, BIOSIS' ENTERED AT 12:47:57 ON 25 NOV 2009

L1 10043 S ENDOTHELIAL PROGENITOR CELLS
L2 12913 S VASCULAR FUNCTION
L3 1293 S VASCULAR CONTRACTILITY
L4 79 S BRACHIAL REACTIVITY
L5 1372 S L3 OR L4
L6 148 S L1 AND L2
L7 1 S L1 AND L5
L8 107 S L1(L)L2
L9 48 DUP REM L8 (59 DUPLICATES REMOVED)
L10 48 FOCUS L9 1-
L11 0 S L10 AND PY<=2002
L12 28 S L10 AND NUMBER
L13 0 S L12 AND L5
L14 2 S L12 AND FRAMINGHAM

=> d ti so au ab l14 2

L14 ANSWER 2 OF 2 MEDLINE on STN
TI Circulating **endothelial progenitor cells**, **vascular function**, and cardiovascular risk.
SO The New England journal of medicine, (2003 Feb 13) Vol. 348, No. 7, pp. 593-600.
Journal code: 0255562. E-ISSN: 1533-4406.
AU Hill Jonathan M; Zalos Gloria; Halcox Julian P J; Schenke William H; Waclawiw Myron A; Quyyumi Arshed A; Finkel Toren
AB BACKGROUND: Cardiovascular risk factors contribute to atherogenesis by inducing endothelial-cell injury and dysfunction. We hypothesized that **endothelial progenitor cells** derived from bone marrow have a role in ongoing endothelial repair and that impaired mobilization or depletion of these cells contributes to endothelial dysfunction and cardiovascular disease progression. METHODS: We measured the **number** of colony-forming units of **endothelial progenitor cells** in peripheral-blood samples from 45 men (mean [+/-SE] age, 50+/-2 years). The subjects had various degrees of cardiovascular risk but no history of cardiovascular disease. Endothelium-dependent and endothelium-independent function was assessed by high-resolution ultrasonography of the brachial artery. RESULTS: We observed a strong correlation between the **number** of circulating **endothelial progenitor cells** and the subjects' combined **Framingham** risk factor score (r=-0.47, P=0.001). Measurement of flow-mediated brachial-artery reactivity also revealed a significant relation between endothelial function and the **number** of progenitor cells (r=0.59, P<0.001). Indeed, the levels of circulating **endothelial progenitor cells** were a better predictor of vascular reactivity than was the presence or absence of conventional risk factors. In addition, **endothelial progenitor cells** from subjects at high risk for cardiovascular events had higher rates of in vitro senescence than cells from subjects at low risk. CONCLUSIONS: In healthy men, levels of

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endothelial progenitor cells may be a surrogate biologic marker for **vascular function** and cumulative cardiovascular risk. These findings suggest that endothelial injury in the absence of sufficient circulating progenitor cells may affect the progression of cardiovascular disease.

=> d ti so au ab pi l10 2

L10 ANSWER 2 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Method for the diagnosis and treatment of vascular disease
SO PCT Int. Appl., 51 pp.
CODEN: PIXXD2
IN Finkel, Toren; Quyyumi, Arshed A.; Hill, Jonathan M.
AB A method for diagnosing decreased **vascular function** is disclosed. The method includes assaying the number of **endothelial progenitor cells**. A method for detecting increased cardiovascular risk is also disclosed, as is a method diagnosing atherosclerosis. In one example, the methods include assaying the number of **endothelial progenitor cells**. A method for treating a subject with decreased **vascular function** is disclosed. The method includes administering a therapeutically effective amount of **endothelial progenitor cells** to the subject. In one embodiment, the subject has atherosclerosis.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004045517	A2	20040603	WO 2003-US36317	20031112
WO 2004045517	A3	20041007		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003291536	A1	20040615	AU 2003-291536	20031112
US 20060057072	A1	20060316	US 2005-534626	20050511

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